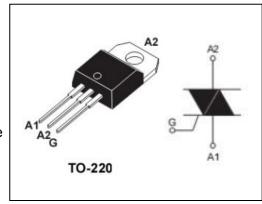


isc Triac BTA312-600D

DESCRIPTION

- · With TO-220 packaging
- 3Q technology for improved noise immunit
- Direct interfacing with low power drivers and microcontroller
- · High commutation capability with very sensitive gat
- · High voltage capabilit
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- high power motor control
- · Solid state relays; heating and cooking appliances
- · Switching applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER			UNIT
V _{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage			V
I _{T(AV)}	Average on-state current			А
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	100 110	А
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
T _j	Operating junction temperature			$^{\circ}$
T _{stg}	Storage temperature			$^{\circ}$

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isc Triac BTA312-600D

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=125℃		0.5	mA
I_{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	1]=125 C			
V _{TM}	On-state voltage	I _T =15A			1.6	V
l _{GT}	Gate-trigger current		I		5	mA
		$V_D = 12V; I_T = 0.1A;$	II		5	
			III		5	
V _{GT}	Gate-trigger voltage	V _D =12V;I _T =0.1A;			1.0	V

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